

Industrial Media Filters

FRP Tanks: 21" to 86" Diameter

MF-600

SERIES

Pure Aqua's media filters clarify water by removing sediment, turbidity, iron, unpleasant tastes, odors, suspended particles and unwanted color; all of which are commonly found in surface water. They can be used in a variety of services including: industrial, municipal, and institutional applications.



Above is a computer generated render of six 48" FRP tank multimedia filters plumbed in parallel with PVC motorized ball valves. Pure Aqua supplies a full line of standard and fully customizable water filtration systems, all of which are engineered using advanced 3D computer modeling software for accurate and customized solutions.

Standard Features

- 1.5"-3" Noryl diaphragm valves or butterfly valves for 4" or larger
- Digital stager for filters using diaphragm valves or PLC for butterfly valves
- 1/4" tubing between stager and valves
- 115V/1ph/60Hz power requirement
- FRP tank with 150 psi rating (55", 71"- 86") 100 psi
- Top loading port
- Schedule 80 PVC face piping
- PP/PVC sch 80 internal piping and distributor
- Vent and drain ports
- High quality media

Available Options

- 240V/1ph/50Hz power requirement
- Differential pressure initiation for backwash
- NEMA 4 or NEMA 4X enclosures
- Tanks according to ASME code
- Tanks with higher pressure rating
- 316 SS or galvanized iron face piping
- Inlet/outlet 316 SS pressure gauges
- Inlet/outlet sample valves
- Manual or automatic air vent valves
- Vacuum breakers
- Flanged piping connection
- Unistrut channel supports

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Digital Stager

The digital stager can use air or water to actuate the control valves. PLC control is optional.



Vacuum Breaker

The vacuum breakers protect the tank and face piping during operation by preventing negative pressure in the tank.



DP Switch

The differential pressure gauge and switch are used to automatically initiate backwash.

Filter Media Types

Pure Aqua supplies a wide range of quality filter media that meet industry standards for efficient and effective filtration.



Coarse Gravel

Fine Gravel

Coconut Carbon Media

Silica Sand

Anthracite Media

Sand

Graded in various ranges, Pure Aqua's sand can be used as filtration media or underbedding depending on particle size and application.

Calcite

Calcite media is specially graded calcium carbonate compound for neutralizing acid with consistent dissolving rates for water treatment.

Manganese Greensand

Manganese Greensand media is treated siliceous material for treating water containing iron, manganese and hydrogen sulfide.

Anthracite

Anthracite is recommended as a filter media where additional silica in the water is not desirable and removes lighter weight turbidity.

Activated Carbon

Activated carbon media is used to remove taste, odor and chlorine and used in many drinking water applications.

ProSand

ProSand is based on a rare natural mineral. Its unique properties radically improve the performance and cost of media filtration.

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Operation Specifications

- Operating pressure: 2-6.8 bar (30-100 psi)
- Operating temperature: 2-38°C (35-100°F)
- Electrical requirement: 115V/1ph/60Hz
- Filters can be supplied in 240V/1ph/50Hz

Model #		Flow Rate								Tank Size D"xH"	Media Qty (ft³)	Pipe Size		Approx Weight (lbs)
		Minimum		Average		Peak		Backwash				Serv.	Drain	
Automatic	Manual	GPM	M³/H	GPM	M³/H	GPM	M³/H	GPM	M³/H					
Multi Layers Filters: Anthracite, Sand and Gravel (Turbidity Removal)														
MLF21-A-F	MLF21-M-F	24	5.5	36	8.2	48	10.9	36	8.2	21x65	8	1-1/2"	1-1/2"	963
MLF24-A-F	MLF24-M-F	31	7.1	47	10.7	63	14.3	47	10.7	24x72	10	1-1/2"	1-1/2"	1,290
MLF30-A-F	MLF30-M-F	49	11.2	74	16.7	98	22.3	74	16.7	30x72	15	2"	2"	2,035
MLF36-A-F	MLF36-M-F	71	16.1	106	24.1	141	32.1	106	24.1	36x72	24	3"	3"	3,113
MLF42-A-F	MLF42-M-F	96	21.9	144	32.8	192	43.7	144	32.8	42x72	32	3"	3"	4,670
MLF48-A-F	MLF48-M-F	126	28.5	188	42.8	251	57.1	188	42.8	48x72	40	3"	3"	5,873
MLF55-A-F	MLF55-M-F	165	37.5	247	56.2	330	75.0	247	56.2	55x86	50	3"	3"	7,138
MLF63-A-F	MLF63-M-F	216	49.2	325	73.8	433	98.3	325	73.8	63x86	60	3"	4"	9,959
MLF71-A-F	MLF71-M-F	275	62.5	412	93.7	550	125	412	93.7	71x89	71	6"	6"	11,170
MLF79-A-F	MLF79-M-F	340	77.3	510	116	680	155	510	116	79x93	83	6"	6"	12,750
MLF86-A-F	MLF86-M-F	403	91.6	605	137	806	183	605	137	86x100	96	6"	6"	14,583
AG Filters: Non Hydrous Silicon Dioxide (Turbidity Removal)														
AGF21-A-F	AGF21-M-F	19	4.4	24	5.5	29	6.6	24	5.5	21x65	8	1-1/2"	1-1/2"	513
AGF24-A-F	AGF24-M-F	25	5.7	31	7.1	38	8.6	31	7.1	24x72	10	1-1/2"	1-1/2"	713
AGF30-A-F	AGF30-M-F	39	8.9	49	11.2	59	13.4	49	11.2	30x72	15	2"	2"	1,169
AGF36-A-F	AGF36-M-F	57	12.8	71	16.1	85	19.3	71	16.1	36x72	24	2"	2"	1,703
AGF42-A-F	AGF42-M-F	77	17.5	96	21.9	115	26.2	96	21.9	42x72	32	3"	3"	2,810
AGF48-A-F	AGF48-M-F	100	22.8	126	28.5	151	34.3	126	28.5	48x72	40	3"	3"	3,563
AGF55-A-F	AGF55-M-F	132	30.0	165	37.5	198	45.0	165	37.5	55x86	50	3"	3"	4,250
AGF63-A-F	AGF63-M-F	173	39.3	216	49.2	260	59.0	216	49.2	63x86	60	3"	3"	6,494
AGF71-A-F	AGF71-M-F	220	50.0	275	62.5	330	74.9	275	62.5	71x89	71	4"	4"	7,094
AGF79-A-F	AGF79-M-F	272	61.9	340	77.3	408	92.8	340	77.3	79x93	83	6"	6"	7,969
AGF86-A-F	AGF86-M-F	323	73.3	403	91.6	484	110	403	91.6	86x100	96	6"	6"	9,063
Activated Carbon Filters: Granular Form with High Degree of Porosity (Taste, Odor and Color Removal)														
ACF21-A-F	ACF21-M-F	19	4.4	24	5.5	29	6.6	24	5.5	21x65	8	1-1/2"	1-1/2"	538
ACF24-A-F	ACF24-M-F	25	5.7	31	7.1	38	8.6	31	7.1	24x72	10	1-1/2"	1-1/2"	744
ACF30-A-F	ACF30-M-F	39	8.9	49	11.2	59	13.4	49	11.2	30x72	15	2"	2"	1,216
ACF36-A-F	ACF36-M-F	57	12.8	71	16.1	85	19.3	71	16.1	36x72	24	2"	2"	1,778
ACF42-A-F	ACF42-M-F	77	17.5	96	21.9	115	26.2	96	21.9	42x72	32	3"	3"	2,910
ACF48-A-F	ACF48-M-F	100	22.8	126	28.5	151	34.3	126	28.5	48x72	40	3"	3"	3,688
ACF55-A-F	ACF55-M-F	132	30.0	165	37.5	198	45.0	165	37.5	55x86	50	3"	3"	4,406
ACF63-A-F	ACF63-M-F	173	39.3	216	49.2	260	59.0	216	49.2	63x86	60	3"	3"	6,681
ACF71-A-F	ACF71-M-F	220	50.0	275	62.5	330	74.9	275	62.5	71x89	71	4"	4"	7,316
ACF79-A-F	ACF79-M-F	272	61.9	340	77.3	408	92.8	340	77.3	79x93	83	6"	6"	8,228
ACF86-A-F	ACF86-M-F	323	73.3	403	91.6	484	110	403	91.6	86x100	96	6"	6"	9,363

Pure Aqua also supplies: Custom Engineered Solutions, Reverse Osmosis Systems, Water Conditioning, Chemical Dosing Systems, Ultraviolet (UV) Sterilizers and Ozonation Systems.

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Model #		Flow Rate								Tank Size D"xH"	Media Qty (ft ³)	Pipe Size		Approx Weight (lbs)
		Minimum		Average		Peak		Backwash				Serv.	Drain	
Automatic	Manual	GPM	M ³ /H	GPM	M ³ /H	GPM	M ³ /H	GPM	M ³ /H					
Birm Filters: (Fe, Mn, H₂S Reduction)														
BRF21-A-F	BRF21-M-F	19	4.4	24	5.5	29	6.6	24	5.5	21x65	8	1-1/2"	1-1/2"	703
BRF24-A-F	BRF24-M-F	25	5.7	31	7.1	38	8.6	31	7.1	24x72	10	1-1/2"	1-1/2"	950
BRF30-A-F	BRF30-M-F	39	8.9	49	11.2	59	13.4	49	11.2	30x72	15	2"	2"	1,525
BRF36-A-F	BRF36-M-F	57	12.8	71	16.1	85	19.3	71	16.1	36x72	24	2"	2"	2,273
BRF42-A-F	BRF42-M-F	77	17.5	96	21.9	115	26.2	96	21.9	42x72	32	3"	3"	3,570
BRF48-A-F	BRF48-M-F	100	22.8	126	28.5	151	34.3	126	28.5	48x72	40	3"	3"	4,513
BRF55-A-F	BRF55-M-F	132	30.0	165	37.5	198	45.0	165	37.5	55x86	50	3"	3"	5,438
BRF63-A-F	BRF63-M-F	173	39.3	216	49.2	260	59.0	216	49.2	63x86	60	3"	3"	7,919
BRF71-A-F	BRF71-M-F	220	50.0	275	62.5	330	74.9	275	62.5	71x89	71	4"	4"	8,780
BRF79-A-F	BRF79-M-F	272	61.9	340	77.3	408	92.8	340	77.3	79x93	83	6"	6"	9,940
BRF86-A-F	BRF86-M-F	323	73.3	403	91.6	484	110	403	91.6	86x100	96	6"	6"	11,343
Calcite Filters: (pH Neutralization)														
CTF21-A-F	CTF21-M-F	19	4.4	24	5.5	29	6.6	24	5.5	21x65	8	1-1/2"	1-1/2"	763
CTF24-A-F	CTF24-M-F	25	5.7	31	7.1	38	8.6	31	7.1	24x72	10	1-1/2"	1-1/2"	1,025
CTF30-A-F	CTF30-M-F	39	8.9	49	11.2	59	13.4	49	11.2	30x72	15	2"	2"	1,638
CTF36-A-F	CTF36-M-F	57	12.8	71	16.1	85	19.3	71	16.1	36x72	24	2"	2"	2,453
CTF42-A-F	CTF42-M-F	77	17.5	96	21.9	115	26.2	96	21.9	42x72	32	3"	3"	3,810
CTF48-A-F	CTF48-M-F	100	22.8	126	28.5	151	34.3	126	28.5	48x72	40	3"	3"	4,813
CTF55-A-F	CTF55-M-F	132	30.0	165	37.5	198	45.0	165	37.5	55x86	50	3"	3"	5,813
CTF63-A-F	CTF63-M-F	173	39.3	216	49.2	260	59.0	216	49.2	63x86	60	3"	3"	8,369
CTF71-A-F	CTF71-M-F	220	50.0	275	62.5	330	74.9	275	62.5	71x89	71	4"	4"	9,313
CTF79-A-F	CTF79-M-F	272	61.9	340	77.3	408	92.8	340	77.3	79x93	83	6"	6"	10,563
CTF86-A-F	CTF86-M-F	323	73.3	403	91.6	484	110	403	91.6	86x100	96	6"	6"	12,063
Manganese Greensand Filters: Enriched Quality with High Catalytic Capacity (Fe, Mn and H₂S Reduction)														
GSF21-A-F	GSF21-M-F	19	4.4	24	5.5	29	6.6	24	5.5	21x65	8	1-1/2"	1-1/2"	1,153
GSF24-A-F	GSF24-M-F	25	5.7	31	7.1	38	8.6	31	7.1	24x72	10	1-1/2"	1-1/2"	1,513
GSF30-A-F	GSF30-M-F	39	8.9	49	11.2	59	13.4	49	11.2	30x72	15	2"	2"	2,369
GSF36-A-F	GSF36-M-F	57	12.8	71	16.1	85	19.3	71	16.1	36x72	24	2"	2"	3,623
GSF42-A-F	GSF42-M-F	77	17.5	96	21.9	115	26.2	96	21.9	42x72	32	3"	3"	5,370
GSF48-A-F	GSF48-M-F	100	22.8	126	28.5	151	34.3	126	28.5	48x72	40	3"	3"	6,763
GSF55-A-F	GSF55-M-F	132	30.0	165	37.5	198	45.0	165	37.5	55x86	50	3"	3"	8,250
GSF63-A-F	GSF63-M-F	173	39.3	216	49.2	260	59.0	216	49.2	63x86	60	3"	3"	11,294
GSF71-A-F	GSF71-M-F	220	50.0	275	62.5	330	74.9	275	62.5	71x89	71	4"	4"	12,774
GSF79-A-F	GSF79-M-F	272	61.9	340	77.3	408	92.8	340	77.3	79x93	83	6"	6"	14,609
GSF86-A-F	GSF86-M-F	323	73.3	403	91.6	484	110	403	91.6	86x100	96	6"	6"	16,743

*All filters require periodic backwashing to dispose of the accumulated debris. This is accomplished by backwashing clean water through the unit and then disposing of the effluent. During this phase, the different sizes of media separate into layers, preparing the filter bed for service. Because backwashing generally occurs at higher flow rates than those seen in service, oftentimes a proper backwash flow rate is not possible because the systems are designed for required service flow rates. However, by utilizing smaller double or triple unit systems, the optimum backwash flow rate is lower; therefore, these systems operate at higher service flow rates.

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